## **INTERNATIONAL SEARCH REPORT**

Inten Application No PCT/JP2004/016890

A. CLASSI	FICATION OF SUBJECT MATTER C12N1/20 C12N15/75								
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC							
B. FIELDS SEARCHED									
Minimum do	ocumentation searched (classification system followed by classification C12N	on symbols)							
Documentati	on searched other than minimum documentation to the extent that s	such documents are included in the fields so	earched						
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used	)						
EPO-In	ternal , WPI Data, PAJ, BIOSIS, EMBAS	SE							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No						
х	WO 02/097064 A (KAO CORPORATION; KAZUHISA; ENDO, KEIJI; OZAWA, TAI TOHAT) 5 December 2002 (2002-12-0	1-9							
P,X	claims 8,9; sequences 2,1 & EP 1 391 502 A (KAO CORPORATION 25 February 2004 (2004-02-25)	1-9							
Y	WO 96/34961 A (GENENCOR INTERNATIINC; UNIVERSIDAD NACIONAL AUTONON MEXICO) 7 November 1996 (1996-11-page 7, paragraph 3; table 1 page 3, paragraph 2; claim 2	1-9							
	-	-/-							
X Furt	her documents are listed in the continuation of box C	X Patent family members are listed	în annex						
° Special car	tegories of cited documents	<sup>1</sup> T <sup>1</sup> later document published after the inte	rnational filing date						
"A" docume	nt defining the general state of the art which is not	or pnority date and not in conflict with cited to understand the principle or the	the application but						
<sup>1</sup> E" carlier o	ered to be of particular relevance document but published on or afterthe international	invention  1X* document of particular relevance, the o							
filing d	late nt which may throw doubts on prionty clarm(s) or	cannot be considered novel or cannot involve an inventive step when the do	be considered to						
which	is cited to establish the publication date of another n or other special reason (as specified)	'Y' document of particular relevance, the cannot be considered to involve an in	claimed invention						
	nt referring to an oral disclosure, use, exhibition or	document is combined with one or more ments, such combination being obvious	ore other such docum						
"P" docume	nations in the prior to the international filing date but can the priority date claimed	in the art  "&" document member of the same patent	-						
Date of the	actual completion of the international search	Date of mailing of the international sear	rch report						
2	8 Apri 1 2005	01/12/2005							
Name and n	nailing address of the ISA	Authorized officer							
	European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV RIJSWIA TeI (+31-70) 340-2040, Tx 31651 epo nl, Fax (+31-70) 340-3016	Marches ini , P							

## INTERNATIONAL SEARCH REPORT

Intern d Application No PCT/JP2004/016890

		<u> </u>
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	HIROKI YAMAMOTO ET AL: "DETERMINATION OF A 12 KB NUCLEOTIDE SEQUENCE AROUND THE 760 REGION OF THE BACILLUS SUBTILIS CHROMOSOME" MICROBIOLOGY, SOCIETY FOR GENERAL MICROBIOLOGY, READING, GB, vol. 142, 1996, pages 1417-1421, XP002924538 ISSN: 1350-0872 abstract; table 2	1-9
Y	REIZER JONATHAN ET AL: "Novel phosphotransferase system genes revealed by genome analysis - the complete complement of PTS proteins encoded within the genome of Bacillus subtilis" MICROBIOLOGY (READING), vol. 145, no. 12, December 1999 (1999-12), pages 3419-3429, XP002326596 ISSN: 1350-0872 abstract; table 2	1-9
Y	YAMAMOTO HIROKI ET AL: "Regulation of the glv operon in Bacillus subtil is: YfiA (GIvR) is a positive regulator of the operon that is repressed through CcpA and ere"  JOURNAL OF BACTERIOLOGY, vol. 183, no. 17, September 2001 (2001-09), pages 5110-5121, XP002326597 ISSN: 0021-9193 abstract	1-9

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern | Application No PCT/JP2004/016890

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 02097064	A	05-12-2002	CN	1513057	A	14-07-2004
			EP	1391502	Al	25-02-2004
			WO	02097064	Al	05-12-2002
			JР	2003047490	A	18-02-2003
			US	2004248279	Al	09-12-2004
EP 1391502	Α	25-02-2004	EP	1391502	Al	25-02-2004
			US	2004248279	Al	09-12-2004
			CN	1513057	Α	14-07-2004
			WO	02097064	Al	05-12-2002
			JР	2003047490	A	18-02-2003
WO 9634961	A	07-11-1996	CA	2220100	Al	07-11-1996
			EP	0827542	Al	11-03-1998
			WO	9634961	Al	07-11-1996
			US	2002155521	ו מ	24-10-2002